

# BEST IN DEFENSE

OFFICE OF DEFENSE DEVELOPMENT

NORTH CENTRAL INDIANA





Encompassing 47 smart-connected communities, the region is an epicenter of innovation in both mobility and information technology. The University of Notre Dame is a growing research-and-development wheel with spokes reaching out to mature enterprises in defense, aerospace, vehicle and life sciences, and spinning out patents and new enterprises ranging from data security to the Industrial Internet of Things.

# ECONOMY & WORKFORCE

- Workforce: 403,670
- \$139K Median Home Price
- \$42,946 Per-Capita Income

**“High relative capacity for innovation.”**

*Stats America on St. Joseph, Elkhart and Kosciusko counties*



## MANUFACTURING

When examined at a macro scale, north central Indiana's common theme is mobility — from Humvees and aircraft wheels, to pleasure craft and RVs. The region survived the Great Recession and is now flourishing and expanding.

- **Motor Vehicles, Trucks:** AM General in South Bend, well known for its military Humvee and civilian Hummer
  - Produced and sustained more than 296,000 vehicles
  - Employs 2,400 workers in Indiana, Michigan and Ohio
  - Supported by approximately 1,600 suppliers across 43 states
- **Aircraft Parts:** Honeywell Aerospace in South Bend, manufacturing wheels and brakes for aircraft
- **RVs:** Thor Industries in Elkhart, a global leader in the cluster affiliated with numerous brands and models
- **Boats:** Boat Holdings, LLC in Elkhart (recently acquired by Polaris); with pontoon brands including Bennington, Godfrey, Hurricane and Rinker
- **Motorcycles:** Janus Motorcycles in Goshen
- **Racing Tires:** Hoosier Racing Tire in Lakeville, the world's largest race tire manufacturer
- **Vehicle Testing:** Navistar Proving Grounds in New Carlisle
- **Transportation, Distribution and Logistics:** Crown Equipment in Elkhart, supplying lift trucks and forklifts



**\$2.46 billion**  
Annual Economic Impact

**16,700**  
Regional Jobs  
supported by university

**\$175 million**  
Science and Engineering  
Research Funding in 2016

**\$43 million**  
Procurement spending in 2016  
with businesses owned by minorities,  
women and veterans

**167**  
patents issued and licenses  
executed between 2010-18

**46** Number of startups  
resulting from patent  
licenses, a number of  
which are student driven

In the past decade, the university has focused on external engagement and collaboration as one of its primary missions, pushing toward becoming a research-and-development hub and a human capital differentiator.

### Academic Centers include:

#### Institute for Flow Physics and Control

Features the country's largest fluid dynamics lab and a new \$40 million Turbomachinery Laboratory that tests gas turbine engines.

#### The Center for Nano Science and Technology

An inter-disciplinary approach to leverage expertise for applied to advanced materials testing and solutions.

#### Center for Research Computing

Facilitates discoveries in science and engineering, the arts, humanities and social sciences through advanced computation, data analysis and other digital research tools.

Notre Dame's human and intellectual resources have enabled the region to become an emergent player in IT and data analytics. Local success stories include:

**SIMBA Chain Inc** – Formed in 2017 with a Defense Advanced Research Projects Agency grant to the school and Indiana Technology and Manufacturing Companies in order to develop a secure, unhackable messaging and transaction platform for the U.S. Military.

**Aunalytics** – Co-founded in 2011 by a Notre Dame professor and two alums, the company has developed its own end-to-end cloud analytics platform to provide consumer and digital analytics, as well as Internet of Things analysis.

**EmNet** – A partnership between Notre Dame and the city provided a real-time decision support system to address the city's combined sewer and rainwater overflow problems. EmNet now works on infrastructure analysis with a number of other cities.

**Emu Technology** – With two Notre Dame professors of computer science and engineering among its founders, Emu is developing "exascale-capable computing architecture" focused on big data applications that are "choking today's supercomputers."

## EDUCATION



**INDIANA UNIVERSITY**  
SOUTH BEND

OFFERS

**100 UNDERGRADUATE PROGRAMS**

as well as master's degree programs in applied mathematics, computer science and business administration.

**PURDUE**  
UNIVERSITY

#### Polytechnic Institute

Grants associate and Bachelor of Science degrees in a range of STEM-related fields including robotics, mechanical, electrical and industrial engineering technology.



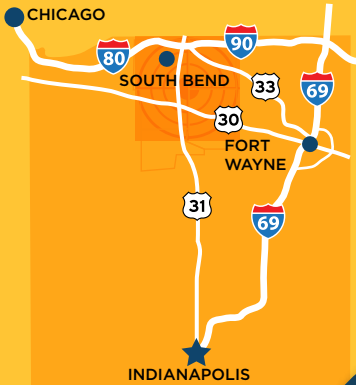
SOUTH BEND-ELKHART-WARSAW

Provides numerous STEM-related degree programs from advanced automation and robotics to cybersecurity.

Other regional universities and colleges include: Saint Mary's College, Holy Cross College, Bethel College, Goshen College, Ancilla College, Lake Michigan College and Southwestern Michigan College.

# INFRASTRUCTURE

## INTERSTATES & U.S. HIGHWAYS



**75%**  
of America's  
population  
is within a  
day's drive



## AIRPORTS

South Bend International Airport tenants Delta Airlines and United Airlines offer service multiple times daily to five key hubs—Atlanta, Chicago, Detroit, Minneapolis and Newark. Tenants American Airlines and Allegiant offer service to Dallas/Ft. Worth, Las Vegas, Phoenix, Charlotte, Orlando, Tampa and Punta Gorda.

South Bend International's multi-modal terminal serves over one million air, rail and bus passengers each year.

## RAIL SYSTEMS

CSX, Norfolk Southern and Canadian National cross the area, with numerous interurban, regionals and short lines to link local companies with the nation's rail network.

The South Shore Line is an interurban commuter rail line connecting South Bend International Airport to downtown Chicago's Millennium Station.

## MARINE

The Port of Indiana-Burns Harbor handles international ships via the St. Lawrence Seaway connecting the Great Lakes to the Atlantic Ocean.

Coast Guard Station Michigan City is a multi-mission unit that conducts missions in search and rescue, maritime law enforcement, homeland security and marine environmental protection.

# QUALITY OF PLACE

**20**

MAJOR DIVISION I  
men's and women's sports  
teams at Notre Dame

**100+**  
**LAKES**  
in Kosciusko County

**40,000+**

STUDENTS STUDYING AT  
REGIONAL INSTITUTIONS  
OF HIGHER EDUCATION

**800**

MILES OF  
WALKING AND BIKE  
TRAILS IN THE REGION



**150**

CHEFS, MERCHANTS  
AND FARMERS  
at the Chesterton European Market



**15** MILES OF  
**SHORELINE**  
AT INDIANA DUNES

**LEVEL 2**

White-water rafting rating  
on the East Race Waterway  
in downtown South Bend



**170,000 SQ. FOOT**  
**AQUATICS CENTER IN ELKHART**



## DEFENSE INDUSTRY ASSISTANCE

**South Bend | Elkhart  
Regional Partnership**

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**Indiana**  
A State that Works